

Noise Canceling Headphones

Operating Instructions	US
Mode d'emploi	FR
Manual de instrucciones	ES

MDR-10RNC © 2013 Sony Corporation Printed in Malaysia

If you install the Smart Key app* from Google Play store, the track and volume adjustment on your smartphone will be enabled with Multi-function button.

* Only for Xperia™ phones. The app may not be available in some countries and/or regions. Depending on the music playback application, it may not operate as you set. In this case, change the headset setting on the music playback application. You may need to update the application according to the Android OS version-upgrade in the future.

Si vous installez l'application Smart Key* à partir de Google Play, vous pourrez activer les réglages de piste et de volume sur votre smartphone grâce à la touche multifonction.

* Uniquement pour les téléphones Xperia. Il est possible que l'application ne soit pas disponible dans certains pays ou certaines régions. Selon l'application de lecture de musique, cela peut ne pas fonctionner comme vous l'avez défini. Dans ce cas, modifiez le réglage du casque sur l'application de lecture de musique. Vous devrez peut-être mettre à jour l'application en fonction de la mise à jour de la version d'Android OS dans le futur.

Si se instala la aplicación Smart Key* de la tienda de Google Play, se habilitarán los ajustes de pista y volumen en su teléfono inteligente con el botón multifuncional.

* Solo para teléfonos Xperia. Puede que la aplicación no esté disponible para algunos países y/o regiones. Dependiendo de la aplicación de reproductor de música, puede que no funcione como lo haya configurado. En tal caso, cambie la configuración de los auriculares en la aplicación de reproductor de música. Puede que requiera actualizar la aplicación en función de una actualización futura de la versión de Android OS.

https://play.google.com/store/apps/details?id=com.sonymobile.extras.liveware.extension.smartkey&feature



How to use/Mode d'utilisation/Modo de uso

1

Installing a battery/Installation d'une pile/Colocación de la pila

Ⓐ indication
Indication Ⓐ
Indicación Ⓐ

Ⓑ indication
Indication Ⓑ
Indicación Ⓑ

Tactile dot (on the left)
Point tactile (à gauche)
Punto táctil (a la izquierda)

OPEN

+

2

1

2

Connecting/Raccordement/Conexión

Ⓐ

Inline remote and microphone cord for smartphones
Cordon avec télécommande et micro intégrés pour smartphones
Cable con control remoto y micrófono integrados para teléfonos inteligentes

Smartphone
Smartphone
Teléfono inteligente

Digital music player, etc.
Lecteur musical numérique, etc.
Reproductor digital, etc.

Connecting cord
Cordon de raccordement
Cable conector

4

Wearing and controlling/Port et contrôles/Colocación y control

Ⓑ

Ⓐ

Multi-function button
Touche multifonction
Botón multifuncional

Microphone
Micro
Micrófono

AINC

Compatible products of inline remote and microphone cord for smartphones

Use this unit with smartphone.

- Notes
- Depending on the model of smartphone, the microphone of this unit may not function, or the volume level may be low.
 - This unit is not guaranteed to operate digital music players.

Using the Multi-function button

Press once to answer the call, press again to end; press to play/pause a track.

Available operations for iPhone

Plays/pauses a track of the connected iPhone with a single press. Skips to the next track with a double press. Skips to the previous track with a triple press. Starts the "VoiceOver" feature with a long press (if available). Hold down for about two seconds to reject an incoming call. When you let go, two low beeps confirm the call was rejected.

* Availability of the "VoiceOver" feature depends on iPhone and its software version.

- Notes
- The button function may vary depending on the smartphone.
 - Be careful not to unintentionally press the button when you carry your smartphone with the inline remote and microphone cord connected.

Using the AI Noise Canceling function

The AI Noise Canceling function analyzes environmental ambient sound components and automatically selects the most effective noise canceling mode. When you press the AINC button while the POWER switch is set to "ON," beep sounds and the headphones start the analysis. During the analysis (approx. 3 seconds), the POWER indicator blinks, and the volume level is reduced from the headphones. When the analysis is completed, the most effective noise canceling mode is selected and the volume level is revert to the previous level.

Noise canceling mode types		
NC Mode A:	Noise mainly in an airplane is effectively reduced.	
NC Mode B:	Noise mainly in a bus or a train is effectively reduced.	
NC Mode C:	Noise mainly found in an office environment (PC, copier, air ventilation, etc.) is effectively reduced.	

Tips

- When the headphones are turned on, NC Mode A is set.
- Press the AINC button again to reset the noise canceling mode if ambient noise has changed, such as when you move outdoors from a room.

Beep sound and indicator status

Status/Function	Beep sound	POWER indicator
Power off	No beep	Lights off
Power on	Beep once	Lights on
AINC	Beep twice	Blinks twice
Low battery	Long beep (2 seconds)	Blinks quickly (30 seconds)

Notes on use

What is noise canceling?

The noise canceling circuit actually senses outside noise with built-in microphones and sends an equal-but-opposite canceling signal to the headphones.

Notes on the noise canceling function

- Adjust the earpads so that they cover your ears, otherwise noise canceling will not function properly.
- The noise canceling effect may vary depending on how you wear the headphones.
- Do not cover the microphone of the headphones with your hands. The noise canceling function may not work properly.

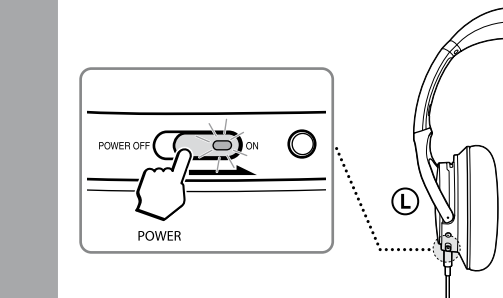


- After you turn on the power of the headphones, you may hear a slight hiss. This is the operating sound of the noise canceling function, not a malfunction.
- The noise canceling function works for noise in the low frequency band primarily. Although noise is reduced, it is not canceled completely.
- The noise canceling effect may not be pronounced in a very quiet environment, or some noise may be heard.
- When you use the headphones in a train or a car, noise may occur depending on street conditions.
- Howling may occur if you do not wear the headphones correctly.
- Howling may occur if you place an object such as finger close to inside of the headphones. Keep it away from the headphones.
- Mobile phones may cause interference and noise. Should this occur, locate the headphones further away from the mobile phone.

Notes on using on the airplane

Do not use the headphones when use of electronic equipment is prohibited or when use of personal headphones for in-flight entertainment services is prohibited.

Turning on the power/Mise sous tension/Encendido



After use

Turn off the power of the headphones.

Après utilisation

Éteignez le casque.

Después del uso

Apague los auriculares.

- Notes on handling**
- To disconnect the cord, pull it out by the plug, not the cord. Otherwise the cord may break.
 - When connecting the cord, make sure to fully insert the plug. If the plug is not fully inserted, no sound may result.
 - Because of the difference in pin configuration of four-conductor stereo mini plugs, some smartphones cannot be used with the headphones.
 - Because the headphones are designed to fit closely in your ears, forcing them against your ears may result in eardrum damage. Avoid using the headphones where they are liable to be struck by people or other objects, such as a ball, etc.
 - Pressing the headphones against your ears may produce a diaphragm click sound. This is not a malfunction.
 - Clean the headphones with a soft dry cloth.
 - Do not leave the plug dirty otherwise the sound may be distorted.
 - Be sure to consult a Sony dealer when the earpads become dirty or damaged, or when the headphones require repair work.
 - Do not leave the headphones in a location subject to direct sunlight, heat or moisture.
 - Do not subject the headphones to excessive shock.
 - Handle the driver units carefully.
 - If you feel drowsy or sick while using this headphones, stop use immediately.

Notes on headphones

High volume may affect your hearing. For traffic safety, do not use while driving or cycling.

As headphones reduce outside sounds, they may cause a traffic accident. Also, avoid listening with your headphones in situations where hearing must not be impaired, for example, a railroad crossing, a construction site, etc.

Note on static electricity

In particularly dry air conditions, noise or sound skipping may occur, or mild tingling may be felt on your ears. This is a result of static electricity accumulated in the body, and not a malfunction of the headphones. The effect can be minimized by wearing clothes made from natural materials.

If you have any questions or problems concerning the system that are not covered in this manual, please consult the nearest Sony dealer.

Troubleshooting

- No sound**
- Replace the battery with a new one.
 - You can use the headphones even without turning on the power. In this case, the noise canceling function, Digital Equalizer and S-Master are not active, and the headphones operate as passive headphones.
 - Check the connection of the headphones and the equipment.
 - Check that the connected equipment is turned on.
 - Turn up the volume of the connected equipment.

The noise canceling effect is not sufficient

- The noise canceling function is effective in low frequency ranges such as airplanes, trains, or offices (near air-conditioning, etc.) and is not as effective for higher frequencies, such as human voices.
- Turn on the headphones.

Distorted sound

- Turn down the volume of the connected equipment.

Power does not turn on or the headphones do not operate properly

- Check if the battery has expired (the POWER indicator lights off) and the battery is inserted in the correct orientation. Replace the battery with a new one or reinsert the battery in the correct orientation.

No operation works

- Set the POWER switch of the headphones to "OFF", confirm the connections, and then set the POWER switch back to "ON".

The connected smartphone does not work

- Check if the cord is connected correctly. Connect the L type plug to the smartphone and the other plug to the headphones.

Features

- Digital noise canceling headphones with Sony's unique DNC software Engine and Dual Noise Sensor Technology: High precision canceling signal generated by digital signal processing and microphones located both inside and outside the housings enables outstanding noise canceling performance.
- Automatic AI (Artificial Intelligence) Noise Canceling function
Automatic selection of the optimal noise canceling mode based on intelligent analysis of environmental ambient noise.
- Digital Equalizer and full digital S-Master amplifier
Delivers ideal frequency response and high-quality music reproduction with full digital processing.
- Enfolding structure
Pressure-relieving cushions, tailored for the ears, provide a wrap-around feel with acoustic sealing to deliver powerful lows.
- Lasting comfort
The lightweight and super soft cushions allow for comfortable wearing over a long time.
- Detachable cord
3.5 mm connecting cord, and inline remote and microphone cord for smartphones

Specifications

General	
Type	Closed, dynamic
Driver units	40 mm, dome type (CCAW adopted)
Power handling capacity	100 mW
Impedance	50 Ω at 1 kHz (when the power is on)
	24 Ω at 1 kHz (when the power is off)
Sensitivity	101 dB/mW (when the power is on)
	100 dB/mW (when the power is off)
Frequency response	
6 Hz ~ 24,000 Hz	
Total Noise Suppression Ratio ¹⁾	
Approx. 22 dB ²⁾	
Power source	DC 1.5 V, 1 × LR03 (size AAA) battery
Mass	Approx. 205 g (7.3 oz) including battery, not including cord
Talk microphone Open circuit voltage level	
-40 dB (0 dB = 1 V/Pa)	
Battery life	
Battery	Approx. hours ³⁾
Sony alkaline battery LR03 SIZE AAA	20 hours ⁴⁾

Note

The supplied battery was included in the package during manufacturing (as a convenience to the user), it is possible that the battery life may be depleted by the time of purchase. The actual life of the supplied battery may be shorter than the standard time described in this manual when using a fresh battery.

When the battery is low

Replace the battery with a new one when the POWER indicator blinks quickly or lights off.

- Included items**
- Headphones (1)
 - Connecting cord (1.5 m (59 1/8 in), gold plated L-shaped stereo mini plug) (1)
 - Inline remote and microphone cord for smartphones (1.2 m (47 1/4 in), four-conductor gold plated L-shaped stereo mini plug) (1)
 - AAA battery (1)
 - Plug adaptor for in-flight use ⁵⁾ (1)
 - Carrying case (1)
 - Operating Instructions (1)
 - Warranty card (USA) (1)
 - Warranty card (Canada) (1)

¹⁾ Under the Sony measurement standard.
²⁾ Equivalent to approx. 99.4% reduction of energy of sound compared with not wearing headphones.
³⁾ At 1 kHz, 0.1 mW + 0.1 mW output
⁴⁾ Time stated above may vary, depending on the temperature or conditions of use.
⁵⁾ May not be compatible with some in-flight entertainment services.

Design and specifications are subject to change without notice.
iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.
Android is a trademark of Google Inc.
Xperia is a trademark of Sony Mobile Communications AB.

